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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO. CONFIRMATION NO.	
10/580,153	05/19/2006	Samuel Schuler	R.310516 8067	
2119 RONALD E. G	7590 11/24/200 REIGG	EXAMINER		
GREIGG & GR	EIGG P.L.L.C.	BINDA, GREGORY JOHN		
1423 POWHATAN STREET, UNIT ONE ALEXANDRIA, VA 22314			ART UNIT	PAPER NUMBER
			3679	
		MAIL DATE	DELIVERY MODE	
			11/24/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Applica	tion No.	Applicant(s)		
Office Action Summary		10/580,	153	SCHULER ET AL.		
		Examin	er	Art Unit		
		Greg Bi	nda	3679		
Period fo	The MAILING DATE of this commun r Reply	ication appears on t	he cover sheet with the	correspondence addr	ess	
A SHO WHIC - Exten after: - If NO - Failur Any n	DRTENED STATUTORY PERIOD F HEVER IS LONGER, FROM THE M sions of time may be available under the provisions SIX (6) MONTHS from the mailing date of this comr period for reply is specified above, the maximum st e to reply within the set or extended period for reply eply received by the Office later than three months of d patent term adjustment. See 37 CFR 1.704(b).	IAILING DATE OF of 37 CFR 1.136(a). In no nunication. atutory period will apply and will, by statute, cause the a	THIS COMMUNICATIC event, however, may a reply be t will expire SIX (6) MONTHS fror pplication to become ABANDON	N. imely filed in the mailing date of this comr ED (35 U.S.C. § 133).		
Status						
2a)⊠ 3)□	Responsive to communication(s) file This action is FINAL . Since this application is in condition closed in accordance with the practi	2b)⊡ This action is for allowance exce∣	non-final. pt for formal matters, pi		nerits is	
Dispositi	on of Claims					
5)⊠ 6)⊠ 7)□ 8)□ Applicati	Claim(s) 11-30 is/are pending in the 4a) Of the above claim(s) is/a Claim(s) 14-17,20,21,25,26,28 and Claim(s) 11-13,18,19,22-24,27 and Claim(s) is/are objected to. Claim(s) are subject to restriction Papers The specification is objected to by the	re withdrawn from o 30 is/are allowed. 29 is/are rejected. ction and/or election				
10) 🖾 -	The drawing(s) filed on 24 October 2 Applicant may not request that any obje Replacement drawing sheet(s) including The oath or declaration is objected to	2008 is/are: a) ☐ acction to the drawing(s) the correction is requ) be held in abeyance. So uired if the drawing(s) is o	ee 37 CFR 1.85(a). bjected to. See 37 CFR	1.121(d).	
Priority u	nder 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
2) Notice Notice (3) Inform	e of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (For Disclosure Statement(s) (PTO/SB/08) No(s)/Mail Date	PTO-948)	4) Interview Summar Paper No(s)/Mail [5) Notice of Informal 6) Other:	Date		

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1. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Drawings

- 2. The replacement drawings filed October 24, 2008 are objected to because:
 - a. An inappropriate cross hatch pattern is used for the aluminum alloy shaft 7. See MPEP § 608.02 for the appropriate pattern.
 - b. The drawings fail show following claim features:
 - i. Claims 27 & 28: "the suction extraction opening has a larger diameter than the inflation opening"
 - ii. Claims 29 & 30: "an angle of at least approximately 90 degrees"
- 2. Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet"

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pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 112

3. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

- 4. Claims 11-13, 18, 19, 22-24, 27 & 29 rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. Claim 11, line 6 recites the limitation, "unobstructed". Applicant has not pointed out where, nor does it appear, the limitation is supported in the application as originally filed.
- 5. Claims 12, 19, 23, 27 & 29 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
 - a. Claim 12 recites the limitation, "at least two openings". It is unclear if these openings are the same as, or different from the two openings recited in claim 11.

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b. Claim 27 recites the limitations, "a suction extraction opening" and "an inflation opening". It is unclear if these openings are the same as or different from the suction and flushing openings recited in claim 11.

Claim Rejections - 35 USC § 102

6. Claims 11-13, 18, 19, 22, 23, 27 & 29 are rejected under 35 U.S.C. 102(b) as being anticipated by Louviere, US 4,210,213. Fig. 2 shows a rotary leadthrough that could be used in a fourth axle of a Delta robot arm, the rotary leadthrough comprising:

a housing 10;

a shaft 12, 20 located in an axial leadthrough of the housing and is rotatably supported in that housing, for connection to the robot arm; and

at least two unobstructed openings (see the holes in the screens 40) in the housing for cleaning the axial leadthrough, the shaft having a reduced diameter extending over a portion 12 of its length, which diameter is less than the diameter of the axial leadthrough in that region 20, thereby providing a void between the shaft and the axial leadthrough.

Claim Rejections - 35 USC § 103

6. Claim 24 is rejected under 35 U.S.C. 103(a) as being unpatentable over Louviere.

Louviere shows a housing 10 and a shaft 12, 20, but does not expressly disclose making the housing of plastic and/or the shaft from aluminum. It would have been obvious to one having ordinary skill in the art at the time the invention was made to make the housing of plastic and/or the shaft from aluminum, since it has been held to be within the general skill of a worker in the

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art to select a known material on the basis of its suitability for the intended use as a matter of obvious design choice. *In re Leshin*, 125 USPQ 416.

Allowable Subject Matter

7. Claims 14-17, 20, 21, 25, 26, 28 & 30 are allowed.

Response to Arguments

- 8. Applicant's arguments filed October 24, 2008 have been fully considered but they are not persuasive.
 - a. Applicant argues the limitations of claims 27-30 are shown in Figs. 2 & 5. However, the limitations are not shown there or in any of the other figures.
 - b. Applicant argues claims 27-30 have been amended in order to obviate the drawing objections. However, claims 27-30 have not been amended.
 - c. Applicant argues that Louviere fails to show unobstructed openings. However, Louviere neither shows nor suggests any obstruction at the holes in the screens 40.

Conclusion

9. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO

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MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Greg Binda whose telephone number is (571) 272-7077. The examiner can normally be reached on M-F 9:30 am to 7:00 pm with alternate Fridays off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Daniel P. Stodola can be reached on (571) 272-7087. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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